

determine how to handle displaying multiple media streams that the media presentation system 102 provides to the viewing client device.

[0162] As shown in FIG. 4B, in step 426 the media presentation system 102 provides the additional media streams to the viewing client device 104. In some cases, the media presentation may provide reduced versions of the additional media streams or select portions from the additional media streams. For example, if bandwidth is limited, the media presentation system 102 may provide a lower-quality resolution of the additional media streams. Additionally, or alternatively, the media presentation system 102 may withhold audio for one or more of the media streams when providing the additional media streams.

[0163] The viewing client device 104, as illustrated in step 428, can present the additional media streams to the viewing user. For example, the viewing client device 104 can display one or more additional media streams to the viewing user at the one time, such as in a grid layout. Alternatively, the viewing client device 104 may display a one of the additional media streams at one time and allow the viewing user to scroll or cycle through the additional media streams.

[0164] In one or more embodiments, the viewing client device 104 may vary the size of the additional media streams when presenting the additional media streams to the viewing user. For example, the viewing client device 104 may display one or more of the additional media streams over a portion of the presently presented media stream, such as the second media stream or the production media stream (e.g., picture-in-picture). As another example, the viewing client device 104 may reduce the size of the second media stream and display one or more of the additional media streams adjacent to the second media stream, such as in a symmetrical grid layout. One will appreciate that the viewing client device 104 can present the additional media streams to a viewing user using a variety of methods and layouts.

[0165] The viewing client device 104 can allow the viewing user to select one or more of the additional media streams. Thus, as step 430 of FIG. 4B illustrates, the viewing client device 104 receives a selection of one or more additional media streams. In response, the viewing client device 104 presents the selected media stream to the viewing user, as shown in step 432. The viewing client device 104 can replace the second media stream with the selected media stream. Alternatively, the viewing client device 104 may present the selected media stream in addition to the second media stream, such as side-by-side or one overlying the other.

[0166] In some example embodiments, the viewing client device 104 may request a higher resolution of the selected media stream from the media presentation system 102. For example, if the media presentation system 102 sent a lower-resolution, or truncated portion, of the additional media stream that the viewing user selected, the viewing client device 104 may request the media presentation system 102 send a higher resolution of the selected media stream for the viewing client device 104 to present to the viewing user.

[0167] Further, in one or more embodiments, the viewing user may allow the viewing user to separately select video and audio from different media streams. For example, the viewing user may switch between various camera angles corresponding to the related media streams, but may remain on the same audio channel provided from the media stream with the clearest audio track. Further, in some cases, the

viewing user may mix audio from different media streams together so that the viewing user can hear audio corresponding to multiple media streams. In another case, the viewing user may be content with watching the production media stream, but may desire to change between different audio streams, such as switching to a Spanish or French audio stream rather than an English audio stream.

[0168] As described above, FIG. 4C provides an alternate embodiment where a viewing user skims the media presentation for previous notable moments. In particular, the steps 440-452 in FIG. 4C can occur after step 418 of FIG. 4A, where the media presentation system 102 provides the second media stream to the viewing client device 104. In other words, the steps in an embodiment described with respect to FIG. 4C can occur after a viewing user is presented with a media presentation corresponding to an event. In particular, and as shown in step 440 of FIG. 4C, the media presentation system 102 identifies notable moments from the related media streams. As described below in additional detail, the media presentation system 102 can identify notable moments from the multiple related media streams corresponding to the event. Further, as described below, the media presentation system 102 can identify notable moments based on user profile attributes of the viewing user as well as based on social data from other viewing users.

[0169] In general, notable moments can include portions of a media stream that are of interest to a viewing user. Examples of notable moments include noteworthy parts, highlights, or significant portions of an event. For instance, a notable moment can be a sports play, an announcement of a contest winner (e.g., a reality show winner, an award winner, a lottery winner), a song performance by an artist, a speech by a politician, an image of a person or object, etc.

[0170] The media presentation system 102 can identify notable moments from each of the related media streams. In many cases, the related media streams provide the same content and/or subject matter, but at different angles. As such, the media presentation system 102 can identify that a notable moment is captured from multiple perspectives. In other cases, the media presentation system 102 may identify a notable moment in the related media streams that are only provided on a single media stream. For example, a capturing user may provide subject matter that no other capturing user at the same event provides, such as a celebrity cameo at the event, on a media stream that only captures the actions of a specific athlete.

[0171] As mentioned above, the media presentation system 102 can also identify notable moments specific to a particular viewing user based on user profile attributes of the viewing user. As described above, user profile attributes for a user (e.g., a viewing user) can include user profile information, such as biographic information, demographic information, behavioral information, social information, or other types of descriptive information. Further, the user profile attributes can include user actions, such as user-generated likes, comments, posts, shares, etc. For example, the media presentation system 102 can identify notable moments particular to a viewing user based on the viewing user comments about a particular topic or subject. Accordingly, by using user profile attributes of the viewing user, the media presentation system 102 can identify notable moments that are of specific interest to the viewing user.